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TITLE: MAGNETO-OPTICAL RECORDING MEDIUM
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ABSTRACT:

PURPOSE: To obtain the magneto-optical recording medium having a high sensitivity and high C/N by forming a metal reflecting layer of an Ag alloy which is formed by incorporating 0.5 to 30at.% Au into Ag and further incorporating 0.5 to 15at.% at least one kind of Ta or Ti therein.

CONSTITUTION: The AgCu alloy film is formed by a high-frequency sputtering method on a substrate consisting of glass, acrylic resin, etc. The AgCu alloy film is formed by adding 0.5 to 30at.% Cu to the Ag, by which the high reflectivity is obtd. The reflectivity is not lowered even if the film is rested over a long period of time. In addition, the film has durability as well. The reflectivity degrades in a short period of time if the content of the Cu is smaller than 0.5at.% or larger than 30at.%. The recording sensitivity and the durability are greatly improved if at least one kind of the Ta or Ti is added at 0.5 to 15at.% to the AgCu film. There is no effect of improving the sensitivity if the content of the Ta and Ti is smaller than this range. The reflectivity is low and the C/N is poor as well if the content exceeds this range.

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